* SWBAT apply work, power, and energy as needed

Sep 6-2:31 PM

Welcome!!!

SECA Physics
Thursday 4 December 2014

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* Pick up:
  - slip of paper (for later)

Opening Questions:

What do we measure with Watts? with Joules?

POWER

WORK ENERGY

Algebra extra credit: (index card with name)

PE = mgh KE = $(1/2)mv^2$

If an object starts at a certain height and then all the PE is converted to KE, how fast will it be going (what is "v")?

Centering...

Sep 7-7:04 AM

Catchy Physics Phrases

Work IS WHEN A FORCE CAUSES A DISPLACEMENT.

JOULES

Energy IS THE ABILITY TO DO WORK

JOULES

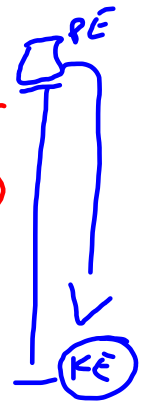
Power IS WORK OVER TIME

WATTS

Dec 5-7:14 AM

PE = mgh KE = $(1/2)mv^2$

If an object starts at a certain height and all the PE is converted to KE, how fast will it be going (what is "v")?



$2 \cdot mgh = \frac{1}{2} mv^2 \cdot 2$ 5m

$\frac{2mgh}{m} = \frac{mv^2}{m}$

$\sqrt{2gh} = \sqrt{v^2}$

$V = \sqrt{2 \cdot g \cdot h}$

$V = \sqrt{2 \cdot (10 m/s^2) \cdot 5m}$

h = 5m

h = 5m Worksheet

V = 10 m/s

Dec 6-7:08 AM

Daily 3 Questions

* Every day except test/project days
* 3 Questions on the topics of the day
* Main source of daily points
* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

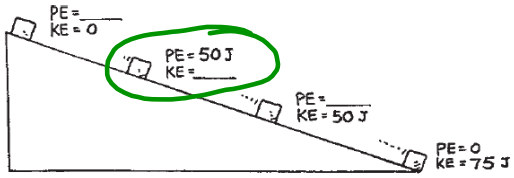
Sep 9-7:32 AM

1. What is the **power** output of an engine that does 60,000 J of work in 10 seconds?

$$P = \frac{W}{t} = \frac{60{,}000\,J}{10\,s} = 6000\,W$$

2. What value goes in the circle?

25 J



3. What is measured in Watts?
   A. Work
   B. Energy
   C. Power

Dec 2-7:55 AM